



SEQUENCE LISTING

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<120> IMPROVED HEAT SHOCK PROTEIN-BASED VACCINES AND
IMMUNOTHERAPIES

<130> 8449-405-999

<140> 10/776,521

<141> 2004-02-12

<150> 60/503,417

<151> 2003-09-16

<150> 60/463,746

<151> 2003-04-18

<150> 60/462,469

<151> 2003-04-11

<150> 60/447,142

<151> 2003-02-13

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<221> VARIANT

<222> 6

<223> Xaa = Val or Ile or Leu or Thr

<220>
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 <223> Xaa = Val or Leu

<220>
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 <223> Xaa = any amino acid

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shock protein

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 <223> Xaa = Trp or any amino acid

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Ile Leu Lys Glu Pro Val His Gly Val
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1 5

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<213> *Listeria innocua*

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1 5

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<213> *Yersinia pseudotuberculosis*

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<213> *P. falciparum*

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 Glu Val Asp Pro Ile Gly His Leu Tyr
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Trp residue

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<220>
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Trp residue

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Trp residue

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<223> Heat shock protein binding domain with a terminal
Trp residue

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Trp residue

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Trp Lys Trp Gly Ile Tyr Gly Trp

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<223> Heat shock protein binding domain with a terminal
Trp residue

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<211> 8

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 Trp residue

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 <210> 139
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 Trp residue

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 <210> 140
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 Trp residue

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 Trp residue

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Trp residue

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Leu Gly Thr Arg Lys Gly Gly Trp
1 5

<210> 143

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Trp residue

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1 5

<210> 144

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Trp residue

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<210> 145

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Trp residue

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Asn Arg Leu Leu Leu Thr Gly Trp
1 5

<210> 146

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<212> PRT

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Trp residue

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 Trp residue

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 Leu Leu Ile Ile Asp Arg Gly Trp
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 Trp residue

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 Trp residue

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 Trp residue

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 1 5

 <210> 151
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 Trp residue

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<210> 152
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 Trp residue

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<210> 153
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 Trp residue

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<210> 154
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 Trp residue

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<210> 155
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 Trp residue

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<210> 157
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 Trp residue

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<210> 158
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 Trp residue

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<220>
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 Trp residue

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<210> 160
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 Trp residue

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 1 5

<210> 165
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<210> 166
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 Trp residue

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<210> 167
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 Trp residue

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<210> 168
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 Trp residue

<400> 168
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<210> 169
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 Trp residue

<400> 169
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 1 5

<210> 170
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<210> 171
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<210> 172
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<400> 172
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 1 5

<210> 173
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 <210> 174
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 Trp residue

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 <210> 176
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1 5

<210> 184

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Trp residue

<400> 184

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<210> 185

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<210> 186

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 Trp residue

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 <210> 187
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 <210> 188
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 1 5

 <210> 190
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<210> 191
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<210> 192
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<210> 193
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Trp residue

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<210> 194
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Trp residue

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<210> 195

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<210> 196

<211> 8

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<210> 197

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Trp residue

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<210> 198

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Trp residue

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<210> 199

<211> 8

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 <210> 200
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 Trp residue

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 <210> 202
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 Trp residue

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 <210> 203
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Trp residue

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1 5

<210> 204

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Trp residue

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1 5

<210> 205

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Trp residue

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1 5

<210> 206

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Trp residue

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1 5

<210> 207

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Trp residue

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<210> 208
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 1 5

 <210> 211
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 Trp residue

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 Trp residue

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 Trp residue

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<210> 215
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 Trp residue

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<210> 216
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 Trp residue

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 Trp residue

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<210> 221
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      Trp residue

<400> 223
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1 5

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Trp residue

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Trp residue

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1 5

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Trp residue

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 Trp residue

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 Trp residue

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Trp residue

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1 5

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Trp residue

<400> 239
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Trp residue

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1 5

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Trp residue

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Trp residue

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1 5

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Trp residue

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Trp residue

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Trp residue

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1 5

<210> 247

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 Trp residue

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 Trp residue

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 Trp residue

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 Trp residue

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 Ala Lys Ala Thr Pro Glu His Trp
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Trp residue

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Thr Pro Pro Leu Arg Ile Asn Trp
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Trp residue

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<210> 253
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Trp residue

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Asp Leu Asn Ala Tyr Thr His Trp
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<210> 254
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Trp residue

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Val Thr Leu Pro Asn Phe His Trp
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Trp residue

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<211> 8

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Trp residue

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Tyr Pro His Pro Ser Arg Ser Trp

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<210> 257

<211> 8

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Trp residue

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Gly Thr Ala His Phe Met Tyr Trp

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<210> 258

<211> 8

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Trp residue

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Tyr Ser Leu Leu Pro Thr Arg Trp

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<210> 259

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Trp residue

<400> 259

Leu Pro Arg Arg Thr Leu Leu Trp

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 Trp residue

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 Trp residue

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Trp residue

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1 5

<210> 265

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<220>

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Trp residue

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Ala Tyr Lys Ser Leu Thr Gln Trp
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<210> 266

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Trp residue

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1 5

<210> 267

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<220>

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Trp residue

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Glu Gly Pro Leu Arg Ser Pro Trp
1 5

<210> 268

<211> 8

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Trp residue

<400> 268

Thr Thr Tyr His Ala Leu Gly Trp
1 5

<210> 269
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 Trp residue

 <400> 269
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 Trp residue

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 Trp residue

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 Ile Thr Asn Pro Leu Thr Thr Trp
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 Trp residue

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 Ser Ile Gln Ala His His Ser Trp
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 Trp residue

<400> 273
 Leu Asn Trp Pro Arg Val Leu Trp
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 Trp residue

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 Trp residue

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 Trp residue

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 Trp residue

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 Trp residue

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 1 5

<210> 279
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<220>
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 Trp residue

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<210> 280
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 Trp residue

<400> 280
 Tyr Thr Thr His Arg Trp Leu Trp
 1 5

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 1 5

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 Trp residue

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 Phe Thr Asn Gln Gln Tyr His Trp
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 Trp residue

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 Ser His Val Pro Ser Met Ala Trp
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 Trp residue

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 His Thr Thr Val Tyr Gly Ala Trp
 1 5

<210> 287
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 Trp residue

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 1 5

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<210> 290
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<210> 291
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<210> 292
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<400> 292
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 1 5

<210> 293
 <211> 8
 <212> PRT
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<220>
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 Trp residue

<400> 293
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 1 5

<210> 294
 <211> 8
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<220>
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 Trp residue

<400> 294
 Ser Leu Ile Gln Tyr Ser Arg Trp
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<210> 295
 <211> 8
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 <220>
 <223> Heat shock protein binding domain with a terminal
 Trp residue

 <220>
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 <222> 7
 <223> Xaa = any amino acid

 <400> 295
 Asp Ala Leu Met Trp Pro Xaa Trp
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 <210> 296
 <211> 8
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 Trp residue

 <220>
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 <222> 3
 <223> Xaa = any amino acid

 <400> 296
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 <210> 297
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 Trp residue

 <400> 297
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 Trp residue

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<210> 299
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 Trp residue

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<210> 300
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 Trp residue

<400> 300
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<210> 301
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 Trp residue

<220>
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 <223> Xaa = any amino acid

<400> 301
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 1 5

<210> 302
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 Trp residue

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 Trp residue

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 Trp residue

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 Trp residue

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<210> 306
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<210> 307
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Trp residue

<400> 311
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1 5

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Trp residue

<400> 312
Asp Gln Asn Leu Pro Arg Arg Trp
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<210> 313
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Trp residue

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Ser His Phe Glu Gln Leu Leu Trp
1 5

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Trp residue

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<210> 315
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Trp residue

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Ala Pro Leu Asp Arg Ile Thr Trp
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Trp residue

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Phe Ala Pro Leu Ile Ala His Trp
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Trp residue

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Ser Trp Ile Gln Thr Phe Met Trp
1 5

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Trp residue

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<210> 319
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<210> 320

<211> 8
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 His Gly Pro His Leu Phe Asn Trp
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 <210> 321
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 <400> 321
 Tyr Leu Asn Ser Thr Leu Ala Trp
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 <400> 322
 His Leu His Ser Pro Ser Gly Trp
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 Thr Leu Pro His Arg Leu Asn Trp
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Trp residue

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Trp residue

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<210> 326
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Trp residue

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Tyr Pro Thr Pro Leu Leu Thr Trp
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Trp residue

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Trp residue

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Trp residue

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Leu Glu Thr Tyr Thr Ala Ser Trp

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<210> 330

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Trp residue

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Lys Tyr Val Pro Leu Pro Pro Trp

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<210> 331 .

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Trp residue

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Ala Pro Leu Ala Leu His Ala Trp

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<210> 332

<211> 8

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Trp residue

<400> 332

Tyr Glu Ser Leu Leu Thr Lys Trp

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<210> 333

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 Trp residue

 <400> 334
 Gly Leu Ala Thr Val Lys Ser Trp
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 Trp residue

 <400> 335
 Gly Ala Thr Ser Phe Gly Leu Trp
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 Trp residue

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 1 5

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Trp residue

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Thr Leu Tyr Val Ser Gly Asn Trp
1 5

<210> 338

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Trp residue

<400> 338

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1 5

<210> 339

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Trp residue

<400> 339

Val Ala Phe Thr Arg Leu Pro Trp
1 5

<210> 340

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Trp residue

<400> 340

Leu Pro Thr Arg Thr Pro Ala Trp
1 5

<210> 341

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Trp residue

<400> 341

Ala Ser Phe Asp Leu Leu Ile Trp
1 5

<210> 342
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 Trp residue

 <400> 343
 Lys Met Thr Pro Leu Thr Thr Trp
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 <210> 344
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 Trp residue

 <400> 344
 Ala Asn Ala Thr Pro Leu Leu Trp
 1 5

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 Trp residue

 <400> 345
 Thr Ile Trp Pro Pro Pro Val Trp
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 <210> 346
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Trp residue

<400> 346

Gln Thr Lys Val Met Thr Thr Trp
1 5

<210> 347

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 347

Asn His Ala Val Phe Ala Ser Trp
1 5

<210> 348

<211> 8

<212> PRT

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<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

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<221> VARIANT

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<223> Xaa = any amino acid

<400> 348

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<210> 349

<211> 8

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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 349

Thr Trp Gln Pro Tyr Phe His Trp
1 5

<210> 350

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<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 350

Ala Pro Leu Ala Leu His Ala Trp
1 5

<210> 351

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Trp residue

<400> 351

Thr Ala His Asp Leu Thr Val Trp
1 5

<210> 352

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Trp residue

<400> 352

Asn Met Thr Asn Met Leu Thr Trp
1 5

<210> 353

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Trp residue

<400> 353

Gly Ser Gly Leu Ser Gln Asp Trp
1 5

<210> 354

<211> 8

<212> PRT

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Trp residue

<400> 354
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<210> 355
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 Trp residue

<400> 355
 Ser His Leu Tyr Arg Ser Ser Trp
 1 5

<210> 356
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 Trp residue

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<210> 357
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<220>
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<400> 357
 Ser Ile Ile Asn Phe Glu Lys Leu
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<210> 358
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 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 358
 His Trp Asp Phe Ala Trp Pro Trp
 1 5

<210> 359

<211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 359
 Asn Leu Leu Arg Leu Thr Gly Trp
 1 5

 <210> 360
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain

 <400> 360
 Phe Tyr Gln Leu Ala Leu Thr Trp
 1 5

 <210> 361
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 361
 Arg Lys Leu Phe Phe Asn Leu Arg Trp
 1 5

 <210> 362
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 362
 Ala Leu Phe Asp Ile Glu Ser Lys Val
 1 5

 <210> 363
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 363
 Ile Met Asp Gln Val Pro Phe Ser Val

1

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<210> 364

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 364

Tyr Met Asp Gly Thr Met Ser Gln Val

1

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<210> 365

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 365

Thr Leu Gly Ile Val Cys Pro Ile

1

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<210> 366

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Heat shock protein binding domain

<400> 366

Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr

1

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<210> 367

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 367

Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu

1

5

10

15

Thr Gly Trp

<210> 368

<211> 19

<212> PRT

<213> Artificial Sequence

<220>
 <223> Hybrid antigen

 <400> 368
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly His Trp Asp Phe Ala
 1 5 10 15
 Trp Pro Trp

 <210> 369
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 369
 Ala Leu Phe Asp Ile Glu Ser Lys Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
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 <210> 370
 <211> 8
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 370
 Arg Gly Tyr Val Tyr Gln Gly Leu
 1 5

 <210> 371
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 371
 Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

 <210> 372
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

<400> 372
 Ile Met Asp Gln Val Pro Phe Ser Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 373
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 373
 Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly His Trp Asp Phe
 1 5 10 15
 Ala Trp Pro Trp
 20

<210> 374
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 374
 His Trp Asp Phe Ala Trp Pro Trp Gly Ser Gly Tyr Met Asp Gly Thr
 1 5 10 15
 Met Ser Gln Val
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<210> 375
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 375
 Tyr Met Asp Gly Thr Met Ser Gln Val Gly Ser Gly Gly Ser Gly Asn
 1 5 10 15
 Leu Leu Arg Leu Thr Gly Trp
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<210> 376
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 376
 Thr Leu Gly Ile Val Cys Pro Ile Gly Ser Gly His Trp Asp Phe Ala
 1 5 10 15
 Trp Pro Trp

<210> 377
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 377
 Thr Leu Gly Ile Val Cys Pro Ile Gly Ser Gly Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 378
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 378
 Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Gly Ser Gly His Trp Asp
 1 5 10 15
 Phe Ala Trp Pro Trp
 20

<210> 379
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 379
 His Trp Asp Phe Ala Trp Pro Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1 5 10 15
 Glu Lys Leu

<210> 380
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 380

Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Asn Leu Leu Arg Leu
 1 5 10 15
 Thr Gly Trp

<210> 381
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 381
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Phe Tyr Gln Leu Ala
 1 5 10 15
 Leu Thr Trp

<210> 382
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 382
 Ser Ile Ile Asn Phe Glu Lys Leu Gly Ser Gly Arg Lys Leu Phe Phe
 1 5 10 15
 Asn Leu Arg Trp
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<210> 383
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Heat shock protein binding domain

<400> 383
 Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Ser Ile Ile Asn Phe
 1 5 10 15
 Glu Lys Leu

<210> 384

<400> 384
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<210> 385

<400> 385
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<210> 386
 <211> 19
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 <220>
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 <400> 386
 Asn Leu Leu Arg Leu Thr Gly Trp Gly Ser Gly Arg Gly Tyr Val Tyr
 1 5 10 15
 Gln Gly Leu

<210> 387

<400> 387
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<210> 388

<400> 388
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<210> 389
 <211> 10
 <212> PRT
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<220>
 <223> Heat shock protein binding domain

<400> 389
 Glu Leu Ala Gly Ile Gly Ile Leu Thr Val
 1 5 10

<210> 390
 <211> 9
 <212> PRT
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<220>
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<400> 390
 Ser Leu Leu Met Trp Ile Thr Gln Val
 1 5

<210> 391
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 <212> PRT
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<220>

<223> Heat shock protein binding domain

<400> 391

Ser Val Tyr Asp Phe Phe Val Trp Leu
1 5

<210> 392

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 392

Gly Leu Tyr Asp Gly Met Glu His Leu
1 5

<210> 393

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 393

Tyr Leu Glu Pro Gly Pro Val Thr Val
1 5

<210> 394

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain

<400> 394

Lys Ala Ser Glu Lys Ile Phe Tyr Val
1 5

<210> 395

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Hybrid antigen

<400> 395

Glu Leu Ala Gly Ile Gly Ile Leu Thr Val Gly Ser Gly Asn Leu Leu
1 5 10 15
Arg Leu Thr Gly Trp
20

<210> 396
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 396
 Ser Leu Leu Met Trp Ile Thr Gln Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 397
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 397
 Ser Val Tyr Asp Phe Phe Val Trp Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 398
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 398
 Gly Leu Tyr Asp Gly Met Glu His Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 399
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 399
 Tyr Leu Glu Pro Gly Pro Val Thr Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 400

<211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 400
 Lys Ala Ser Glu Lys Ile Phe Tyr Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 401
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 401
 Ala Leu Lys His Arg Ala Tyr Glu Leu
 1 5

<210> 402
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 402
 Ile Leu Lys Glu Pro Val His Gly Val
 1 5

<210> 403
 <211> 9
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Heat shock protein binding domain

 <400> 403
 Ser Leu Phe Asn Thr Val Ala Thr Leu
 1 5

<210> 404
 <211> 11
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain

<400> 404
Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val
1 5 10

<210> 405
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 405
Val Ile Tyr Gln Tyr Met Asp Asp Leu
1 5

<210> 406
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 406
Ser Leu Tyr Asn Thr Val Ala Thr Leu
1 5

<210> 407
<211> 9
<212> PRT
<213> Artificial Sequence

<220>
<223> Heat shock protein binding domain

<400> 407
Ala Ile Ile Arg Ile Leu Gln Gln Leu
1 5

<210> 408
<211> 9
<212> PRT
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<220>
<223> Heat shock protein binding domain

<400> 408
Ala Phe His His Val Ala Arg Glu Leu
1 5

<210> 409
<211> 20
<212> PRT
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<220>
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<400> 409
 Ala Leu Lys His Arg Ala Tyr Glu Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 410
 <211> 20
 <212> PRT
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<220>
 <223> Hybrid antigen

<400> 410
 Ile Leu Lys Glu Pro Val His Gly Val Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 411
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

<400> 411
 Ser Leu Phe Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

<210> 412
 <211> 22
 <212> PRT
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<220>
 <223> Hybrid antigen

<400> 412
 Val Leu Asp Val Gly Asp Ala Tyr Phe Ser Val Gly Ser Gly Asn Leu
 1 5 10 15
 Leu Arg Leu Thr Gly Trp
 20

<210> 413
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Hybrid antigen

 <400> 413
 Val Ile Tyr Gln Tyr Met Asp Asp Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 414
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 414
 Ser Leu Tyr Asn Thr Val Ala Thr Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 415
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
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 <400> 415
 Ala Ile Ile Arg Ile Leu Gln Gln Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 416
 <211> 20
 <212> PRT
 <213> Artificial Sequence

 <220>
 <223> Hybrid antigen

 <400> 416
 Ala Phe His His Val Ala Arg Glu Leu Gly Ser Gly Asn Leu Leu Arg
 1 5 10 15
 Leu Thr Gly Trp
 20

 <210> 417
 <211> 8
 <212> PRT
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 <220>
 <223> Heat shock protein binding domain with a terminal

Trp residue

<400> 417

Asn Leu Leu Arg Leu Thr Gly Trp
1 5

<210> 418

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 418

Phe Tyr Gln Leu Ala Leu Tyr Trp
1 5

<210> 419

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Heat shock protein binding domain with a terminal
Trp residue

<400> 419

Arg Lys Leu Phe Phe Asn Leu Arg Trp
1 5